

STATE WATER BOARD
CURRENT MONITORING AND FUTURE MONITORING NEEDS
DELTA INDEPENDENT SCIENCE BOARD
12 MAY 2016

CONSTITUENTS OF EMERGING CONCERN (CECs)

Existing Monitoring

- Require CEC monitoring in water recycling requirements (human health)
- Initiating pilot study to monitor stormwater and wastewater sources to determine potential impacts to aquatic ecosystem (includes sites in the Delta) -
http://waterboards.ca.gov/water_issues/programs/swamp/cec_aquatic/
- Supporting research to develop bioanalytical tools for screening for CECs

Future Monitoring Needs

- Evaluate data to identify priority CECs for monitoring (Expert Panel Framework -
http://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/recycledwater_cec.shtml)
- Utilize bioanalytical screening for future water quality assessment and for evaluating performance at water recycling facilities (particularly for potable reuses)

HARMFUL ALGAL BLOOMS (HABs)

Existing Monitoring

- Surface Water Ambient Monitoring Program remote sensing and notification procedures
- Developing guidance and standard operating procedures for monitoring ambient water quality/source waters
http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/SWAMP/HABstrategy_phase%201.pdf

Future Monitoring Needs

- Continue statewide remote sensing to provide forecasting information to local agencies

TOXICITY AND PESTICIDES

Existing Monitoring

- Surface Water Ambient Monitoring Program Stream Pollution Trends Monitoring Program – Provides sediment toxicity and pesticide trends for inputs to the Delta

Future Monitoring Needs

- Continue statewide trend monitoring to assess efficacy of control programs

- Develop urban pesticide monitoring framework as part of the Water Boards' Strategy to Optimize Resource Management of Storm Water
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SALINITY

Existing Monitoring

- Required monitoring for compliance with the Delta Plan

Future Monitoring Needs

- Salinity monitoring in southern Delta and in vicinity of export facilities to better understand variability and effects of sea level rise and new facilities

DATA ACCESS AND MONITORING COORDINATION

Existing Efforts

- CA Water Quality Monitoring Council Estuaries Portal - http://www.mywaterquality.ca.gov/eco_health/estuaries/index.html
- CA Environmental Data Exchange Network
- Water Board Open Data Initiative

Future Needs

- Expand multi-agency data exchange and access